

Attorney Docket No. 09800240-0030

PATENT

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Patent Application of: ) Group Art Unit: 1746  
                                  ) )  
                                  Larry J. MARKOSKI ) Examiner:  
                                  ) )  
Application No. 10/609,017 ) )  
                                  ) )  
Filed: June 27, 2003         ) )  
                                  ) )  
For: Fuel Cells Comprising Laminar Flow ) )  
                                  Induced Dynamic Conducting Interfaces, ) )  
                                  Electronic Devices Comprising Such ) )  
                                  Cells, and Methods Employing Same ) )

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT  
WITHIN THREE MONTHS OF FILING OR  
BEFORE MAILING OF FIRST OFFICE ACTION (37 C.F.R. section 1.97(b))**

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INFORMATION DISCLOSURE STATEMENT**

The information disclosure statement submitted herewith is being filed within three months of the filing date of the application or date of entry into the national stage of an international application or before the mailing date of a first Office action on the merits, whichever event occurs last. 37 C.F.R. section 1.97(b).

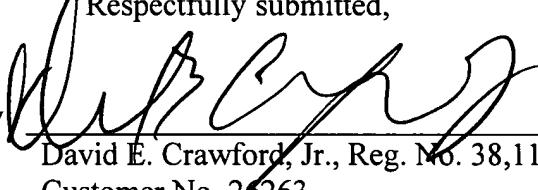
The filing of this information disclosure statement shall not be construed as a representation that a search has been made (37 C.F.R. section 1.97(g)), an admission that the information cited is, or is considered to be, material to patentability, or that no other material information exists.

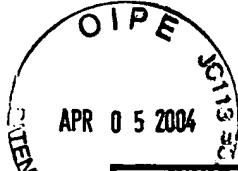
Transmittal of Information Disclosure Statement  
Page 2

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Copies of cite numbers 18, 19, 22 and 13 are enclosed. Copies of the remaining citations contained in this information disclosure statement were cited in parent application serial number 10/053,187, and copies may be found in the parent file.

Dated: 31 MAR 04

Respectfully submitted,  
By   
\_\_\_\_\_  
David E. Crawford, Jr., Reg. No. 38,118  
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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of 2

**Complete if Known**

		Application Number	10/609,017
		Filing Date	June 27, 2003
		First Named Inventor	Larry J. Markoski
		Group Art Unit	1746
		Examiner Name	
Sheet	1	Attorney Docket Number	09800240-0030

**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
1	2002/0041991		04-11-2002	Chan et al.	
2	2002/0028372		03-07-2002	Ohlsen et al.	
3	5,952,118		09-14-1999	Ledjeff et al.	
4	5,863,671		01-26-1999	Spear, Jr. et al.	
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9	4,732,823		03-22-1988	Ito et al.	
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13	3,902,916		09-02-1975	Warszawski	
14	3,849,275		11-19-1974	Candor	

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				
	15	WO 01/37357	05-25-2001	Neah Power Systems, Inc.		<input type="checkbox"/>
	16	JP 10-211447 A	08-11-1998			<input type="checkbox"/>
	17	JP 4-284889	10-09-1992			<input type="checkbox"/>

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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(use as many sheets as necessary)</i>				<b>Application Number</b>	10/609,017
				<b>Filing Date</b>	June 27, 2003
				<b>First Named Inventor</b>	Larry J. Markoski
				<b>Group Art Unit</b>	1746
				<b>Examiner Name</b>	
Sheet	2	of	2	<b>Attorney Docket No.</b>	09800240-0030

<b>OTHER ITEMS – NON PATENT LITERATURE DOCUMENTS</b>			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	18	BRANEBJERG et al., "Application of Miniature Analyzers from Microfluidic Components to uTAS," Proceedings of Micro Total Analysis Systems Conference, Netherlands, 1994, pp. 141-151.	
	19	BRODY et al., "Diffusion-Based Extraction in a Microfabricated Device," Sensors and Actuators, 1997, pp. 13-18, Vol. A58.	
	20	CARRETTE et al., "Fuel Cells-Findamentals and Applications," Fuel Cells, 2001, pp. 5-39, Vol. 1	
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	22	DUFFY et al., "Rapid Prototyping of Microfluidic Systems in Poly(dimethylsiloxane)," Anal. Chem., 1998, pp. 4974-4984, Vol. 70.	
	23	EG&G SERVICES et al., Fuel Cell Handbook, Fifth Edition, 2000, U.S. Department of Energy, Office of Fossil Energy, National Energy Technology Laboratory, pp. 1-xiii, 1-1 to 12-4.	
	24	HEINZEL et al., "A Review of the State-of-the-Art of the Methanol Crossover in Direct Methanol Fuel Cells," J. Power Sources, 1999, pp. 70-74, Vol. 84.	
	25	KENIS et al., "Microfabrication Inside Capillaries Using Multiphase Laminar Flow Patterning," Science, 1999, pp. 83-85, Vol. 285.	
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	27	MARKOSKI, "Summary of Knowledge About Laminar Flow Fuel Cells," 2002, 1 page.	
	28	PICKETT et al., "Ionic Mass Transfer in Parallel Plate Electrochemical Cells," J. Applied Electrochemistry, 1972, pp. 151-156, Vol. 2.	
	29	RO et al., "Sample Clean-Up Using Multiphase Laminar Microfluidics for Electrospray Ionization Mass Spectrometry," obtained at <a href="http://nanotech.osu.edu/abstracts/hahn.htm">http://nanotech.osu.edu/abstracts/hahn.htm</a> as of at least July 24, 2001, 2 pages.	
	30	THOMAS et al., "Los Alamos National Laboratory Monograph LA-UR-99-3231," Fuel Cells: Green Power, 1999, pp. 1-33.	
	31	WASZCZUK et al., "Methanol Electrooxidation on Platinum-RutheniumNanoparticle Catalysts," J. Catalysis, 2001, pp. 1-6, Vol. 203.	
	32	ZHAO et al., "Surfae-Directed Liquid Flow Inside Microchannels," Science, 2001, pp. 1023-1026, Vol. 291.	

Examiner Signature	Date Considered
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